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1 Multipoint audio and video control for packet-based multimedia conferencing
F. Gong
October 1994 **Proceedings of the second ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: pdf(979.60 KB) Additional Information: full citation, abstract, references, citings, index terms

With the advent of broadband integrated services data network (B-ISDN) technologies such as Asynchronous Transfer Mode (ATM) networks, packet-based multimedia (e.g., live audio and video, animation, and text) conferencing is becoming a viable means for achieving virtual proximity, which enables us to overcome the physical separation in space and time and to interact more effectively in our science and engineering endeavors. To bring about the reality of virtual proximity, many technical iss ...

2 Summary of the 4th International Workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)
G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
April 1994 **ACM SIGOPS Operating Systems Review**, Volume 28 Issue 2
Publisher: ACM Press
Full text available: pdf(1.11 MB) Additional Information: full citation, index terms

3 Summary of the 4th international workshop on Network and Operating System Support for Digital Audio and Video (NOSSDAV'93)
G. S. Blair, A. Campbell, G. Coulson, N. Davies, F. Garcia, D. Shepherd
January 1994 **ACM SIGCOMM Computer Communication Review**, Volume 24 Issue 1
Publisher: ACM Press
Full text available: pdf(1.05 MB) Additional Information: full citation, abstract, index terms

This paper presents a summary of the fourth International Workshop on Network and Operating System Support for Digital Audio and Video held at Lancaster. The contents of each session (including panel and work in progress sessions) are described and major areas of controversy are highlighted. A complete bibliography of all papers presented is included.

4 GraphicsNet '95: integrated voice, video, graphics and data network using asynchronous transfer made (ATM)
Marke Clinger
February 1996 **ACM SIGGRAPH Computer Graphics**, Volume 30 Issue 1

Publisher: ACM Press
Full text available: pdf(1.15 MB) Additional Information: full citation, abstract, index terms

Every year demonstrations at the SIGGRAPH conference push the envelope in state-of-the-art graphics. In 1995, SIGGRAPH also pushed the envelope in networking by deploying a conference-wide, production ATM network. GraphicsNet, the conference network, consisted of 400 Ethernet-over-ATM connections and 100 directly attached ATM devices. GraphicsNet was one of the largest ATM backbone networks deployed to date. Using the latest hardware and software available, GraphicsNet provided a switched intern ...

5 Summary of the Second International Workshop on Network and Operating System Support for Digital Audio and Video
Ralf Guido Herrtwich
April 1992 **ACM SIGOPS Operating Systems Review**, Volume 26 Issue 2
Publisher: ACM Press
Full text available: pdf(2.58 MB) Additional Information: full citation, index terms

6 Summary of the Second International Workshop on Network and Operating System Support for Digital Audio and Video
Ralf Guido Herrtwich
April 1992 **ACM SIGCOMM Computer Communication Review**, Volume 22 Issue 2
Publisher: ACM Press
Full text available: pdf(2.32 MB) Additional Information: full citation, index terms

7 vic: a flexible framework for packet video
Steven McCanne, Van Jacobson
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: html(67.64 KB) Additional Information: full citation, references, citings, index terms

Keywords: conferencing protocols, digital video, image and video compression and processing, multicasting, networking and communication

8 Architectural and protocol frameworks for multicast data transport in multi-service networks
K. Ravindran
July 1996 **ACM SIGCOMM Computer Communication Review**, Volume 26 Issue 3
Publisher: ACM Press
Full text available: pdf(1.23 MB) Additional Information: full citation, abstract, index terms

The paper presents architectural and protocol techniques for multicast transport of multi-service data (such as video, audio and graphics). A tree-structured channel in the network is employed as building block for constructing multicast transport services. Data from different sources are multiplexed over a shared tree channel for reaching destinations through intermediate network nodes and links. The choice of multicast architecture is based on the extent of sharing of common links in a tree ac ...

Keywords: architecture embeddings, distribution trees, flow and QOS support functions, functional view of routing algorithms, network-wide transport cost, routing control protocol, shared path segments

9 Design and analysis of low-power access protocols for wireless and mobile ATM networks

Krishna M. Sivalingam, Jyh-Cheng Chen, Prathima Agrawal, Mani B. Srivastava
January 2000 **Wireless Networks**, Volume 6 Issue 1
Publisher: Kluwer Academic Publishers
Full text available: pdf(233.13 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper describes the design and analysis of a low‐power medium access control (MAC) protocol for wireless/mobile ATM networks. The protocol - denoted EC‐MAC (energy conserving medium access control) - is designed to support different traffic types with quality‐of‐service (QoS) provisions. The network is based on the infrastructure model where a base station (BS) serves all the mobiles currently in its cell. A reserv ...

10 Improving and managing multimedia performance over TCP–IP nets

Nathan J. Muller
December 1998 **International Journal of Network Management**, Volume 8 Issue 6
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(338.34 KB) Additional Information: full citation, abstract, index terms

The TCP–IP-based Internet and, consequently corporate Intranets, were not designed for multimedia traffic. This article discusses the several ways of improving multimedia performance, finding that data compression techniques are no longer the most important factor. © 1998 John Wiley & Sons, Ltd.

11 Fast and scalable wireless handoffs in supports of mobile Internet audio

Ramón Cáceres, Venkata N. Padmanabhan
December 1998 **Mobile Networks and Applications**, Volume 3 Issue 4
Publisher: Kluwer Academic Publishers
Full text available: pdf(187.08 KB) Additional Information: full citation, abstract, references, citings, index terms

Future internetworks will include large numbers of portable devices moving among small wireless cells. We propose a hierarchical mobility management scheme for such networks. Our scheme exploits locality in user mobility to restrict handoff processing to the vicinity of a mobile node. It thus reduces handoff latency and the load on the internetwork. Our design is based on the Internet Protocol (IP) and is compatible with the Mobile IP standard. We also present experimental results for the l ...

12 An application level video gateway

Elan Amir, Steven McCanne, Hui Zhang
January 1995 **Proceedings of the third ACM international conference on Multimedia**
Publisher: ACM Press
Full text available: htm(54.34 KB) Additional Information: full citation, references, citings, index terms

Keywords: conferencing protocols, digital video, efficient transcoding, image and video compression and processing, multicasting, networking and communication

13 Media transports and distributed multimedia flows

Mark Baugher
March 1992 **Proceedings of the 1992 ACM/SIGAPP symposium on Applied computing: technological challenges of the 1990's**
Publisher: ACM Press
Full text available: pdf(1.55 MB) Additional Information: full citation, references, citings, index terms

14 Flow synchronization protocol
Julio Escobar, Craig Partridge, Debra Deutsch
April 1994 **IEEE/ACM Transactions on Networking (TON)**, Volume 2 Issue 2
Publisher: IEEE Press
Full text available: pdf(1.26 MB) Additional Information: full citation, references, citings, index terms, review

15 Noncollaborative telepresentations come of age
D. James Gemmell, C. Gordon Bell
April 1997 **Communications of the ACM**, Volume 40 Issue 4
Publisher: ACM Press
Full text available: pdf(655.73 KB) Additional Information: full citation, references, citings, index terms, review

16 MVIP—audio enabled multicast VNet
John L. Robinson, John A. Stewart, Isabelle Labbe
February 2000 **Proceedings of the fifth symposium on Virtual reality modeling language (Web3D-VRML)**
Publisher: ACM Press
Full text available: pdf(112.17 KB) Additional Information: full citation, abstract, references, citings, index terms

This paper presents a multicast approach to shared virtual worlds. A shared VRML world is described with integrated spatial audio in a freeware VRML browser. An implementation in Linux of multicast FreeWRL with the Robust Audio Tool (RAT) is presented. To support this audio-enabled multicast VRML prototype, MVIP (Multicast VRML Interchange Protocol) is implemented as a Java program using the services of the Real-Time Protocol (RTP) and accessing VRML via the External Authoring Interface (EA ...

Keywords: IP multicasting, MBone, distributed virtual environments, multi-user virtual reality, virtual reality markup language

17 Design issues and alternatives for setting up real-time interactive Telelectures
Constantin Arapis, Dimitri Konstantas, Thomi Pilioura
February 1998 **Proceedings of the 1998 ACM symposium on Applied Computing**
Publisher: ACM Press
Full text available: pdf(1.25 MB) Additional Information: full citation, references, citings, index terms

Keywords: ATM, Internet, multimedia, teleconferencing, teleeducation

18 Architecture, design, and implementation of a multimedia conference system
Anna A. Hać, Dongchen A. Lu
March 1997 **International Journal of Network Management**, Volume 7 Issue 2
Publisher: John Wiley & Sons, Inc.
Full text available: pdf(517.69 KB) Additional Information: full citation, abstract, references, index terms

In this article a new multimedia conference system is designed and implemented which allows a group of users to conduct a meeting in real time. Participants can jointly view and edit relevant multimedia information, including text, graphics, and still images distributed throughout the network. © 1997 John Wiley & Sons, Ltd.

19 The transport layer: tutorial and survey

Sami Iren, Paul D. Amer, Phillip T. Conrad
December 1999 **ACM Computing Surveys (CSUR)**, Volume 31 Issue 4
Publisher: ACM Press

Full text available: pdf(261.78 KB) Additional Information: full citation, abstract, references, citings, index terms

Transport layer protocols provide for end-to-end communication between two or more hosts. This paper presents a tutorial on transport layer concepts and terminology, and a survey of transport layer services and protocols. The transport layer protocol TCP is used as a reference point, and compared and contrasted with nineteen other protocols designed over the past two decades. The service and protocol features of twelve of the most important protocols are summarized in both text and tables.< ...

Keywords: TCP/IP networks, congestion control, flow control, transport protocol, transport service

20 A hybrid handover protocol for local area wireless ATM networks

Chai-Keong Toh
December 1996 **Mobile Networks and Applications**, Volume 1 Issue 3
Publisher: Kluwer Academic Publishers

Full text available: pdf(960.44 KB) Additional Information: full citation, abstract, references, citings, index terms

While handovers of voice calls in a wide area mobile environment are well understood, handovers of multi-media traffic in a local area mobile environment is still in its early stage of investigation. Unlike the public wireless networks, handovers for multi-media Wireless LANs (WLANs) have special requirements. In this paper, the problems and challenges faced in a multi-media WLAN environment are outlined and a multi-tier wireless cell clustering architecture is introduced. Design issues for ...

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L1	1	"6138144".pn.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L2	310	session with topology	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L3	663113	audio or video	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L4	18829	conferenc$5 with 3	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L5	39	2 and 4	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L6	17944	microsoft.as.	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:26
L7	35	5 not 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:27
L8	10672623	@ad<"20000307"	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:27
L9	8	7 and 8	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:28
L10	631747	data with transmi$7	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:29
L11	101249	audio and 10	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:29

EAST Search History

L12	34179	11 and 8 not 6	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:29
L13	3130	atm and 12	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:29
L14	11	desimone and 13	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:30
L15	516	multicast$4 and 13	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:30
L16	124	"709"/$.ccls. and 15	US-PGPUB; USPAT; EPO; JPO; IBM_TDB	OR	ON	2006/11/26 11:30

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Inventor Name Search Result

Your Search was:

Last Name = NEWSON
First Name = PAUL

Application#	Patent#	Status	Date Filed	Title	Inventor Name
08640687	5953670	150	05/01/1996	ARRANGEMENT FOR PROVIDING CELLULAR COMMUNICATION VIA A CATV NETWORK	NEWSON, PAUL
09132466	6333926	150	08/11/1998	MULTIPLE USER CDMA BASESTATION MODEM	NEWSON, PAUL
09178856	6370183	150	10/26/1998	PREDICTIVE RAKE RECEIVER FOR CDMA MOBILE RADIO SYSTEMS	NEWSON, PAUL
09199301	6333947	150	11/25/1998	INTERFERENCE CANCELLATION SYSTEM AND METHOD AND CDMA RECEIVER INCLUDING AN INTERFERENCE CANCELLATION CIRCUIT	NEWSON, PAUL
09199302	6298050	150	11/25/1998	SYSTEM AND METHOD FOR CANCELLING THE EXTRA INTERFERENCE CREATED DURING POSITION LOCATION IN A CDMA CELLULAR SYSTEM	NEWSON, PAUL
09201021	6320898	150	11/30/1998	CDMA PSEUDO-SMART ANTENNA SELECTION	NEWSON, PAUL
09203048	6278702	150	12/02/1998	METHOD FOR LIMITING THE DYNAMIC RANGE OF A CDMA SIGNAL	NEWSON, PAUL
60187511	Not Issued	159	03/07/2000	DirectPlay voice for directX 8.0	NEWSON, PAUL E
09800381	6904059	150	03/06/2001	ADAPTIVE QUEUING	NEWSON, PAUL E.
09800393	6704704	150	03/06/2001	AUTOMATIC GAIN CONTROL	NEWSON, PAUL E.
09800394	Not Issued	71	03/06/2001	System and method for multi-layered network communications	NEWSON, PAUL E.
09884634	7072973	150	06/19/2001	DATA TRANSMISSION USING COMMON SLIDING WINDOW	NEWSON, PAUL E.

10184225	Not Issued	71	06/28/2002	Discovery and distribution of game session information	NEWSON, PAUL E.
10722958	Not Issued	30	11/26/2003	Configuration of wireless bridge over ethernet	NEWSON, PAUL E.
10985226	Not Issued	30	11/10/2004	Adaptive queuing	NEWSON, PAUL E.
10985383	Not Issued	30	11/10/2004	Adaptive queuing	NEWSON, PAUL E.
11299114	Not Issued	25	12/09/2005	System and method for multi-layered network communications	NEWSON, PAUL E.
11312781	Not Issued	20	12/20/2005	Social matching of game players on-line	NEWSON, PAUL E.
11312959	Not Issued	30	12/20/2005	On-line gaming session and party management	NEWSON, PAUL E.
60187538	Not Issued	159	03/07/2000	Directplay for directx 8.0	NEWSON, PAUL E.

Inventor Search Completed: No Records to Display.

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Your Search was:

Last Name = TOLL
First Name = RODERICK

Application#	Patent#	Status	Date Filed	Title	Inventor Name
09800381	6904059	150	03/06/2001	ADAPTIVE QUEUING	TOLL, RODERICK M.
09800393	6704704	150	03/06/2001	AUTOMATIC GAIN CONTROL	TOLL, RODERICK M.
09800394	Not Issued	71	03/06/2001	System and method for multi-layered network communications	TOLL, RODERICK M.
09884634	7072973	150	06/19/2001	DATA TRANSMISSION USING COMMON SLIDING WINDOW	TOLL, RODERICK M.
10401620	Not Issued	41	03/27/2003	Providing information links via a network	TOLL, RODERICK M.
10402346	Not Issued	71	03/27/2003	Application-centric user interface techniques	TOLL, RODERICK M.
10683856	Not Issued	30	10/10/2003	Parental controls for entertainment content	TOLL, RODERICK M.
10769075	Not Issued	25	01/30/2004	Fingerprinting software applications	TOLL, RODERICK M.
10985226	Not Issued	30	11/10/2004	Adaptive queuing	TOLL, RODERICK M.
10985383	Not Issued	30	11/10/2004	Adaptive queuing	TOLL, RODERICK M.
11263761	Not Issued	25	10/31/2005	Common controller	TOLL, RODERICK M.
11266143	Not Issued	20	11/03/2005	Compliance interface for compliant applications	TOLL, RODERICK M.
11299114	Not Issued	25	12/09/2005	System and method for multi-layered network communications	TOLL, RODERICK M.
60723195	Not Issued	159	10/03/2005	Common controller	TOLL, RODERICK M.

Inventor Search Completed: No Records to Display.

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